	1	Document ID	Issue Date	Title	Current OR	Inventor
1		US 20040085564 A1	20040506	Image forming systems and image forming methods	358/1.13	Peavey, Brian D. et al.
2		US 20040024936 A1	20040205	Method and system for data entry of handwritten symbols	710/65	Frink, Lloyd et al.
3		US 20030115450 A1	20030619	Method and apparatus for effecting secure document format conversion	713/153	Smith, Jeffrey C.
4		US 20030053127 A1	20030320	Image-forming system with a graphical user interface having an interconnection architecture	358/1.15	Wu, Michael et al.
5		US 20020143871 A1	20021003	Meta-content analysis and annotation of email and other electronic documents	709/204	Meyer, David Francis et al.
6		US 20020135786 A1	20020926	Printing control interface system and method with handwriting discrimination capability	358/1.1	Ma, Yue et al.
7		US 20020129059 A1	20020912	XML auto map generator	715/513	Eck, Jeffery R.
8		US 20020107768 A1	20020808	Transaction closing method, computer program, and system	705/35	Davis, Bradley S. et al.

	1	Document ID	Issue Date	Title	Current OR	Inventor
9		US 20020091527 A1	20020711	Distributed speech recognition server system for mobile internet/intranet communication	704/270.1	Shiau, Shyue-Chin
10		US 20020077805 A1	20020620	System and method for distributing multilingual documents	704/2	Hecht, David L. et al.
11		US 20020042876 A1	20020411	Method and apparatus for effecting secure document format conversion	713/153	Smith, Jeffrey C.
12		US 20020042838 A1	20020411	Network-based document delivery system with receipt and display verification	709/237	Tabayoyon, Alfred T. JR. et al.
13		US 20020027550 A1	20020307	Method and system for data entry of handwritten symbols	345/179	Frink, Lloyd et al.
14		US 20100049666 A1	20011206	Embedded license data file distribution and processing system	705/59	Prakken, Randy L. et al.
15		US 20010012378 A1	20010809	INTERNET ASSISTED MAIL	382/101	KANEVSKY, DIMITRI et al.
16		US 6748529 B2	20040608	Method and apparatus for effecting secure document format conversion	713/153	Smith; Jeffrey C.

	1	Document ID	Issue Date	Title	Current OR	Inventor
26		US 6061741 A	20000509	Method and apparatus for synchronization of connectionless applications across a network by using simple encryption tokens	709/248	Murphy, Jr.; Thomas Edwin et al.
27		US 6021434 A	20000201	System for digital video browsing using telephone and fax	709/219	Pizano; Arturo A.
28		US 5956423 A	19990921	Method and system for data entry of handwritten symbols	382/187	Frink; Lloyd et al.
29		US 5946406 A	19990831	Method and system for data entry of handwritten symbols	382/119	Frink; Lloyd et al.
30		US 5710832 A	19980120	Method and system for displaying handwritten data and recognized symbols	382/189	Berman; Eric Robert et al.
31		US 5576950 A	19961119	Video image search method and system using the same	386/121	Tonomura; Yoshinobu et al.
32		US 5550930 A	19960827	Method and system for training a handwriting recognizer at the time of misrecognition	382/187	Berman; Eric R. et al.

	1	Document ID	Issue Date	Title	Current OR	Inventor
33		US 5537522 A	19960716	Document processing device for improving image quality	345/619	Shibuta; Kazuo et al.
34		US 4855802 A	19890808	Contact type image sensor	257/55	Kato; Toshiaki
35		US 4091424 A	19780523	Facsimile compression system	358/3.29	Widergren; Robert D.
36		US 3584143 A	19710608	FACSIMILE DUPLICATION OF DOCUMENTS BY MEANS OF DIGITAL SIGNALS	358/426.01	Gold; Nathan et al.
37		JP 2000122958 A	20000428	METHOD AND MEDIUM FOR PROVIDING DOCUMENT BY SERVER		RYU, CHINKI et al.
38		JP 60232777 A	19851119	QUANTIZING DEVICE OF PICTURE SIGNAL		NISHIJIMA, YASUO et al.
39		NN9409121	19940901	Ultrasonic Motion Sensor for Display Monitor Power Saving		
40		NB9404441	19940401	No Delay End-to-End Clock Synchronization		
41		NN920571	19920501	Combined DASD Driver and Relational Data Base Manager.		
42		NN9009105	19900901	Work-Around for Epson GQ-3500 Printer Vertical Spacing Support.		

	1	Document ID	Issue Date	Title	Current OR	Inventor
43		NN8901261	19890101	Speech-Synthesis Telephone Call Annunciator		
44		NN8809184	19880901	Computer Shorthand, Word to Bit Value Encoding		
45		NN87081053	19870801	Automatic Document Feeder		
46		NN85102160	19851001	Revisable Form Document Conversion		
47		NN78034144	19780301	Data Streams for Vector Graphics Display. March 1978.		

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	convert$3 close$2 document version transmit$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2005/06/08 07:45
L2	0	convert$3 close$2 document version email	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2005/06/08 07:45
L3	1	convert$3 close$2 document version send$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2005/06/08 07:47
L4	47	convert$3 close$2 document send$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2005/06/08 07:47
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L6	2022	715/513.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/08 09:02
L7	976	715/500.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/08 08:17
L8	6888	709/201,203.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/08 09:06
L9	0	convert$3 close version document transmit$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2005/06/08 08:53
L10	2	convert$3 approximate version document transmit$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2005/06/08 08:53

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L12	0	L11 (html or xml or markup)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2005/06/08 08:54
L13	0	community version (translat$3) close$2	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2005/06/08 08:55
L14	2	community version (transform$3 or convert$3) close$2	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2005/06/08 08:56
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L16	0	community version (transform$3 or convert$3) near$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2005/06/08 08:55
L17	31	target version (transform$3 or convert$3) close$2	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2005/06/08 08:57
L18	310	715/511.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/08 09:02
L19	2738	709/206.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/08 09:07
S25	8	moody.in. and collaborat$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/08 07:43

S35	0	convert$3 close version document transmit$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2005/06/08 08:53
S36	2	convert$3 approximate version document transmit$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2005/06/08 08:53
S37	1954	715/513.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/08 08:16
S43	31	community version (transform$3 or convert$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2005/06/08 08:55
S44	21	community version (translat$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2005/06/08 08:55
S45	1039	(native or source) version (translat$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2005/06/07 06:53
S46	12	S45 document (email or message)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2005/06/07 07:25
S47	2	("6418439").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/07 07:16
S48	70	closest version (transform$3 or convert$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2005/06/07 07:19
S49	4	S48 document	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2005/06/07 07:24

S50	0	S48 (html or xml or markup)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2005/06/08 08:54
S51	9	S48 transmi$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2005/06/07 07:29
S52	3	S48 (email or message)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2005/06/07 07:23
S53	0	S48 send$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2005/06/07 07:23
S54	7	determin$3 closest version document	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2005/06/07 07:33
S55	13	determin$3 closest format document	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2005/06/07 07:31

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1 TextTiling: segmenting text into multi-paragraph subtopic passages

Marti A. Hearst

March 1997 **Computational Linguistics**, Volume 23 Issue 1

Full text available: pdf(2.46 MB) Publisher Site Additional Information: full citation, abstract, references, citings

TextTiling is a technique for subdividing texts into multi-paragraph units that represent passages, or subtopics. The discourse cues for identifying major subtopic shifts are patterns of lexical co-occurrence and distribution. The algorithm is fully implemented and is shown to produce segmentation that corresponds well to human judgments of the subtopic boundaries of 12 texts. Multi-paragraph subtopic segmentation should be useful for many text analysis tasks, including information retrieval and ...

2 Document Formatting Systems: Survey, Concepts, and Issues

Richard Furuta, Jeffrey Scofield, Alan Shaw

September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3

Full text available: pdf(5.36 MB) Additional Information: full citation, references, citings, index terms

3 CHECK: a document plagiarism detection system

Antonio Si, Hong Va Leong, Rynson W. H. Lau

April 1997 **Proceedings of the 1997 ACM symposium on Applied computing**

Full text available: pdf(807.83 KB) Additional Information: full citation, references, citings, index terms

Keywords: copy detection, digital libraries, document plagiarism, information retrieval

4 ViSWeb—the Visual Semantic Web: unifying human and machine knowledge representations with Object-Process Methodology

Dov Dori

May 2004 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 13 Issue 2

Full text available: pdf(1.22 MB) Additional Information: full citation, abstract, index terms

The Visual Semantic Web (ViSWeb) is a new paradigm for enhancing the current Semantic Web technology. Based on Object-Process Methodology (OPM), which enables modeling of systems in a single graphic and textual model, ViSWeb provides for representation of

knowledge over the Web in a unified way that caters to human perceptions while also being machine processable. The advantages of the ViSWeb approach include equivalent graphic-text knowledge representation, visual navigability, semantic sentenc ...

Keywords: Conceptual graphs, Knowledge representation, Object-Process Methodology, Semantic Web, Visual Semantic Web

5 Concepts of the text editor Lara

J. Gutknecht

September 1985 **Communications of the ACM**, Volume 28 Issue 9

Full text available: pdf(1.60 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Lara, a text editor developed for the Lilith workstation, exemplifies the principles underlying modern text-editor design: a high degree of interactivity, an internal data structure that mirrors currently displayed text, and extensive use of bitmap controlled displays and facilities.

6 Document formatting: Creating reusable well-structured PDF as a sequence of component object graphic (COG) elements

Steven R. Bagley, David F. Brailsford, Matthew R. B. Hardy

November 2003 **Proceedings of the 2003 ACM symposium on Document engineering**

Full text available: pdf(458.01 KB) Additional Information: full citation, abstract, references, citings, index terms

Portable Document Format (PDF) is a page-oriented, graphically rich format based on PostScript semantics and it is also the format interpreted by the Adobe Acrobat viewers. Although each of the pages in a PDF document is an independent graphic object this property does not necessarily extend to the components (headings, diagrams, paragraphs etc.) within a page. This, in turn, makes the manipulation and extraction of graphic objects on a PDF page into a very difficult and uncertain process.The wo ...

Keywords: PDF, form Xobjects, graphic objects, tagged PDF

7 Multimedia document presentation, information extraction, and document formation in MINOS: a model and a system

S. Christodoulakis, M. Theodoridou, F. Ho, M. Papa, A. Pathria

December 1986 **ACM Transactions on Information Systems (TOIS)**, Volume 4 Issue 4

Full text available: pdf(3.16 MB) Additional Information: full citation, abstract, references, citings, index terms, review

MINOS is an object-oriented multimedia information system that provides integrated facilities for creating and managing complex multimedia objects. In this paper the model for multimedia documents supported by MINOS and its implementation is described. Described in particular are functions provided in MINOS that exploit the capabilities of a modern workstation equipped with image and voice input-output devices to accomplish an active multimedia document presentation and browsing within docu ...

8 Proximal nodes: a model to query document databases by content and structure

Gonzalo Navarro, Ricardo Baeza-Yates

October 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 4

Full text available: pdf(550.43 KB) Additional Information: full citation, abstract, references, citings, index terms, review

A model to query document databases by both their content and structure is presented. The goal is to obtain a query language that is expressive in practice while being efficiently implementable, features not present at the same time in previous work. The key ideas of

the model are a set-oriented query language based on operations on nearby structure elements of one or more hierarchies, together with content and structural indexing and bottom-up evaluation. The model is evaluated in regard t ...

Keywords: expressivity and efficiency of query languages, hierarchical documents, structured text, text algebras

9 Sequential thematic organization of publications: how to achieve coherence in proposals and reports

J. R. Tracey, D. E. Rugh, W. S. Starkey

August 1999 **ACM SIGDOC Asterisk Journal of Computer Documentation**, Volume 23 Issue 3

Full text available: pdf(3.80 MB) Additional Information: full citation, index terms

10 Automatically generated hypertext versions of scholarly articles and their evaluation

James Blustein

May 2000 **Proceedings of the eleventh ACM on Hypertext and hypermedia**

Full text available: pdf(574.75 KB) Additional Information: full citation, references, citings, index terms

Keywords: World Wide Web, automated linking, browsing, digital library, electronic journal, evaluation, hypertext, information retrieval, usability

11 Pen computing: a technology overview and a vision

André Meyer

July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3

Full text available: pdf(5.14 MB) Additional Information: full citation, abstract, citings, index terms

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions.Starting with a short historic ...

12 Mobile data management: Mimic: raw activity shipping for file synchronization in mobile file systems

Tae-Young Chang, Aravind Velayutham, Raghupathy Sivakumar

June 2004 **Proceedings of the 2nd international conference on Mobile systems, applications, and services**

Full text available: pdf(334.54 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we consider the problem of file synchronization when a mobile host shares files with a backbone file server in a network file system. Several *diff* schemes have been proposed to improve upon the transfer overheads of conventional file synchronization approaches which use full file transfer. These schemes compute the binary *diff* of the new file with respect to the old copy at the server and transfer the computed *diff* to the server for file-synchronization. Howev ...

Keywords: file synchronization, mobile file system, raw activity shipping

13 Document creation I: Creating structured PDF files using XML templates

Matthew R. B. Hardy, David F. Brailsford, Peter L. Thomas

October 2004 **Proceedings of the 2004 ACM symposium on Document engineering**

Full text available: pdf(166.87 KB) Additional Information: full citation, abstract, references, index terms

This paper describes a tool for recombining the logical structure from an XML document with the typeset appearance of the corresponding PDF document. The tool uses the XML representation as a template for the insertion of the logical structure into the existing PDF document thereby creating a Structured/Tagged PDF. The addition of logical structure adds value to the PDF in three ways: the accessibility is improved (PDF screen readers for visually impaired users perform better) media options a ...

Keywords: PDF, XML, logical structure insertion

14 Interactive Editing Systems: Part II

Norman Meyrowitz, Andries van Dam

September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3

Full text available: pdf(9.17 MB) Additional Information: full citation, references, citings, index terms

15 Customizing information capture and access

Daniela Rus, Devika Subramanian

January 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 1

Full text available: pdf(1.26 MB) Additional Information: full citation, abstract, references, citings, index terms, review

This article presents a customizable architecture for software agents that capture and access information in large, heterogeneous, distributed electronic repositories. The key idea is to exploit underlying structure at various levels of granularity to build high-level indices with task-specific interpretations. Information agents construct such indices and are configured as a network of reusable modules called structure detectors and segmenters. We illustrate our architectu ...

Keywords: information gathering, software agents, table recognition

16 Adapting content to mobile devices: Fractal summarization for mobile devices to access large documents on the web

Christopher C. Yang, Fu Lee Wang

May 2003 **Proceedings of the 12th international conference on World Wide Web**

Full text available: pdf(317.55 KB) Additional Information: full citation, abstract, references, index terms

Wireless access with mobile (or handheld) devices is a promising addition to the WWW and traditional electronic business. Mobile devices provide convenience and portable access to the huge information space on the Internet without requiring users to be stationary with network connection. However, the limited screen size, narrow network bandwidth, small memory capacity and low computing power are the shortcomings of handheld devices. Loading and visualizing large documents on handheld devices bec ...

Keywords: document summarization, fractal summarization, handheld devices, mobile commerce

17 Search improvement via automatic query reformulation

Susan Gauch, John B. Smith

July 1991 **ACM Transactions on Information Systems (TOIS)**, Volume 9 Issue 3

Full text available: pdf(2.28 MB) Additional Information: full citation, references, citings, index terms, review

Keywords: Expert Systems, full-text information retrieval, online search assistance, query reformulation, textbases

18 Copy detection mechanisms for digital documents

Sergey Brin, James Davis, Héctor García-Molina

May 1995 **ACM SIGMOD Record , Proceedings of the 1995 ACM SIGMOD international conference on Management of data**, Volume 24 Issue 2

Full text available: pdf(1.51 MB) Additional Information: full citation, abstract, references, citings, index terms

In a digital library system, documents are available in digital form and therefore are more easily copied and their copyrights are more easily violated. This is a very serious problem, as it discourages owners of valuable information from sharing it with authorized users. There are two main philosophies for addressing this problem: prevention and detection. The former actually makes unauthorized use of documents difficult or impossible while the latter makes it easier to discover such activity.I ...

19 Converting a textbook to hypertext

Roy Rada

July 1992 **ACM Transactions on Information Systems (TOIS)**, Volume 10 Issue 3

Full text available: pdf(1.46 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Traditional documents may be transformed into hypertext by first reflecting the document's logical markup in the hypertext (producing first-order hypertext) and then by adding links not evident in the document markup (producing second-order hypertext). In our transformation of a textbook to hypertext, the textbook is placed in an intermediate form based on a semantic net and is then placed into the four hypertext systems: Emacs-Info, Guide, HyperTies, and Super-Book. The first-order Guide a ...

Keywords: document markup, electronic publishing, human-computer interaction, hypermedia models

20 Special issue on natural language generation: Generating natural language summaries from multiple on-line sources

Dragomir R. Radev, Kathleen R. McKeown

September 1998 **Computational Linguistics**, Volume 24 Issue 3

Full text available: pdf(2.36 MB) Publisher Site Additional Information: full citation, abstract, references, citings

We present a methodology for summarization of news about current events in the form of briefings that include appropriate background (historical) information. The system that we developed, SUMMONS, uses the output of systems developed for the DARPA Message Understanding Conferences to generate summaries of multiple documents on the same or related events, presenting similarities and differences, contradictions, and generalizations among sources of information. We describe the various components ...

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1 Sequential thematic organization of publications: how to achieve coherence in proposals and reports
J. R. Tracey, D. E. Rugh, W. S. Starkey
August 1999 **ACM SIGDOC Asterisk Journal of Computer Documentation**, Volume 23 Issue 3
Full text available: pdf(3.80 MB) Additional Information: full citation, index terms

2 Pen computing: a technology overview and a vision
André Meyer
July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3
Full text available: pdf(5.14 MB) Additional Information: full citation, abstract, citings, index terms

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions.Starting with a short historic ...

3 Mobile data management: Mimic: raw activity shipping for file synchronization in mobile file systems
Tae-Young Chang, Aravind Velayutham, Raghupathy Sivakumar
June 2004 **Proceedings of the 2nd international conference on Mobile systems, applications, and services**
Full text available: pdf(334.54 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we consider the problem of file synchronization when a mobile host shares files with a backbone file server in a network file system. Several *diff* schemes have been proposed to improve upon the transfer overheads of conventional file synchronization approaches which use full file transfer. These schemes compute the binary *diff* of the new file with respect to the old copy at the server and transfer the computed *diff* to the server for file-synchronization. Howev ...

Keywords: file synchronization, mobile file system, raw activity shipping

4 Interactive Editing Systems: Part II
Norman Meyrowitz, Andries van Dam

September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3

Full text available: pdf(9.17 MB) Additional Information: full citation, references, citings, index terms

5 Structure and transformation of documents: Mapping and displaying structural transformations between XML and PDF

Matthew R. B. Hardy, David F. Brailsford

November 2002 **Proceedings of the 2002 ACM symposium on Document engineering**

Full text available: pdf(439.03 KB) Additional Information: full citation, abstract, references, citings, index terms

Documents are often marked up in XML-based tagsets to delineate major structural components such as headings, paragraphs, figure captions and so on, without much regard to their eventual displayed appearance. And yet these same abstract documents, after many transformations and 'typesetting' processes, often emerge in the popular format of Adobe PDF, either for dissemination or archiving.Until recently PDF has been a totally display-based document representation, relying on the underlying PostSc ...

Keywords: PDF, XML, document structure transformation

6 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

7 Level II technical support in a distributed computing environment

Tim Leehane

September 1996 **Proceedings of the 24th annual ACM SIGUCCS conference on User services**

Full text available: pdf(5.73 MB) Additional Information: full citation, references, index terms

8 Proceedings of the SIGNUM conference on the programming environment for development of numerical software

March 1979 **ACM SIGNUM Newsletter**, Volume 14 Issue 1

Full text available: pdf(5.02 MB) Additional Information: full citation

9 An experimental multimedia mail system

Jonathan B. Postel, Gregory G. Finn, Alan R. Katz, Joyce K. Reynolds

January 1988 **ACM Transactions on Information Systems (TOIS)**, Volume 6 Issue 1

Full text available: pdf(1.50 MB) Additional Information: full citation, abstract, references, index terms, review

A computer-based experimental multimedia mail system that allows the user to read, create, edit, send, and receive messages containing text, images, and voice is discussed.

10 Special issue on knowledge representation
Ronald J. Brachman, Brian C. Smith
February 1980 **ACM SIGART Bulletin**, Issue 70

Full text available: pdf(13.13 MB) Additional Information: full citation, abstract

In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were twe useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Secon ...

11 A structural view of the Cedar programming environment
Daniel C. Swinehart, Polle T. Zellweger, Richard J. Beach, Robert B. Hagmann
August 1986 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 8 Issue 4

Full text available: pdf(6.32 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents an overview of the Cedar programming environment, focusing on its overall structure—that is, the major components of Cedar and the way they are organized. Cedar supports the development of programs written in a single programming language, also called Cedar. Its primary purpose is to increase the productivity of programmers whose activities include experimental programming and the development of prototype software systems for a high-performance personal computer. T ...

12 An advanced full-text retrieval and analysis system
J. Smith, S. Weiss, G. Ferguson
November 1987 **Proceedings of the 10th annual international ACM SIGIR conference on Research and development in information retrieval**

Full text available: pdf(900.69 KB) Additional Information: full citation, abstract, references, citings, index terms

MICROARRAS is an advanced full-text retrieval and analysis system. It supports fast, efficient browsing of a document's vocabulary as well as its text, recursive analytic categories, Boolean search with flexible context specifications, evaluation of arithmetic expressions, and graphical display of various numeric distributions. The system is designed to work with large textbases stored on remote mainframes or on a local store for a micro-computer or workstation. The description covers syste ...

13 The transport layer: tutorial and survey
Sami Iren, Paul D. Amer, Phillip T. Conrad
December 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 4

Full text available: pdf(261.78 KB) Additional Information: full citation, abstract, references, citings, index terms

Transport layer protocols provide for end-to-end communication between two or more hosts. This paper presents a tutorial on transport layer concepts and terminology, and a survey of transport layer services and protocols. The transport layer protocol TCP is used as a reference point, and compared and contrasted with nineteen other protocols designed over the past two decades. The service and protocol features of twelve of the most important protocols are summarized in both text and tables.< ...

Keywords: TCP/IP networks, congestion control, flow control, transport protocol, transport service

14 On-line Text Editing: A Survey
Andries van Dam, David E. Rice
September 1971 **ACM Computing Surveys (CSUR)**, Volume 3 Issue 3

Full text available: pdf(1.91 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper is a survey of current methods for the on-line creation and editing of computer programs and of ordinary manuscripts text. The characteristics of on-line editing systems are examined and examples of various implementations are described in three categories: program editors, text editors, and terminals with local editing facilities.

15 The Satchel system architecture: mobile access to documents and services
Mike Flynn, David Pendlebury, Chris Jones, Marge Eldridge, Mik Lamming
December 2000 **Mobile Networks and Applications**, Volume 5 Issue 4

Full text available: pdf(207.51 KB) Additional Information: full citation, abstract, references, citings, index terms

Mobile professionals require access to documents and document‐related services, such as printing, wherever they may be. They may also wish to give documents to colleagues electronically, as easily as with paper, face‐to‐face, and with similar security characteristics. The Satchel system provides such capabilities in the form of a mobile browser, implemented on a device that professional people would be likely to carry anyway, such as a pager or mobile phone. Printing may be per ...

16 The C-ODA project: online access to electronic journals
Peter Kirstein, Goli Montasser-Kohsari
June 1996 **Communications of the ACM**, Volume 39 Issue 6

Full text available: pdf(1.24 MB) Additional Information: full citation, references, index terms, review

17 Exchanging APL workspaces (tutorial session)
Harry Bertuccelli
August 1989 **Proceedings of the ACM/SIGAPL conference on APL as a tool of thought (session tutorials)**

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18 Communication complexity of document exchange
Graham Cormode, Mike Paterson, Süleyman Cenk Sahinalp, Uzi Vishkin
February 2000 **Proceedings of the eleventh annual ACM-SIAM symposium on Discrete algorithms**

Full text available: pdf(1.04 MB) Additional Information: full citation, references, citings, index terms

19 Functional Specifications for Typewriter-Like Time-Sharing Terminals
T. A. Dolotta
January 1970 **ACM Computing Surveys (CSUR)**, Volume 2 Issue 1

Full text available: pdf(2.45 MB) Additional Information: full citation, references, citings, index terms

20 Industrial strength hypermedia: requirements for a large engineering enterprise
Kathryn C. Malcolm, Steven E. Poltrock, Douglas Schuler
September 1991 **Proceedings of the third annual ACM conference on Hypertext**

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IEEE CNF	IEEE Conference Proceeding
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